STEM AND METHOD FOR GATHERING SEISM ATA Inventor: Geza Nemeth Attorney Docket No. 13109.11 1/9

> 100 Geophone Seismic Collection Seismic Detection <u>106</u> Amplification <u>108</u> Analog to Digital Conversion <u>104</u> **Control Circuitry** <u>110</u> Memory Instructions Data **Telemetry Circuitry**

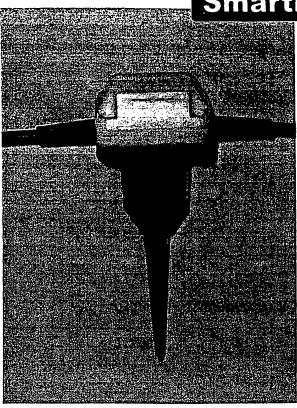
Figure 1

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$SmartPhone^{TM}$



Assembled SmartPhone™

Figure 2A

SmartPhone[™] with Cover Removed

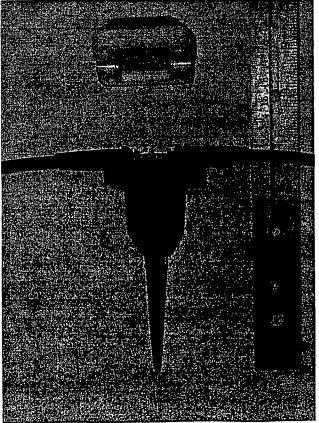


Figure 2B

STEM AND METHOD FOR GATHERING SEISM Inventor: Geza Nemeth Attorney Docket No. 13109.11

Interface Board
Assembly

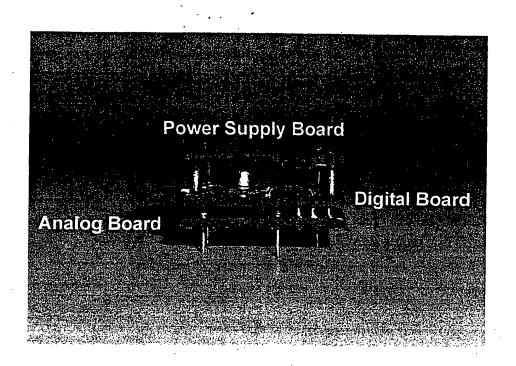
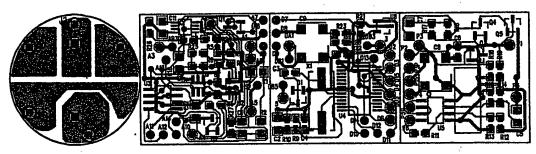


Figure 3

STEM AND METHOD FOR GATHERING SEISM Inventor: Geza Nemeth Attorney Docket No. 13109.11

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ANALOG +5A AGND

DIGITAL +5D DGND

POWER +5C CGND

- NOTES:

 1. ANALOG AND DIGITAL FOLD CIRCUIT SIDES TOGETHER
 2. POWER AND DIGITAL FOLD COMPONENT SIDES TOGETHER
 3. WHEN FOLDED X1 COMPONENT ON DIGITAL BOARD SHOULD
 FOLD OVER A BLANK AREA ON POWER BOARD.
 4. TP1...TP5 WILL HOLD PINS THAT PLUG INTO JUG BOARD.
 5. SIGNALS SENSOR+ AND SENSOR- (TP1 & TP2):
 A. MUST BE ROUTED TOGETHER.
 B. MUST BE KEPT AWAY FROM OTHER SIGNALS.
 C. SHOULD BE 'SHIELDED' WITH AN AGND LAND



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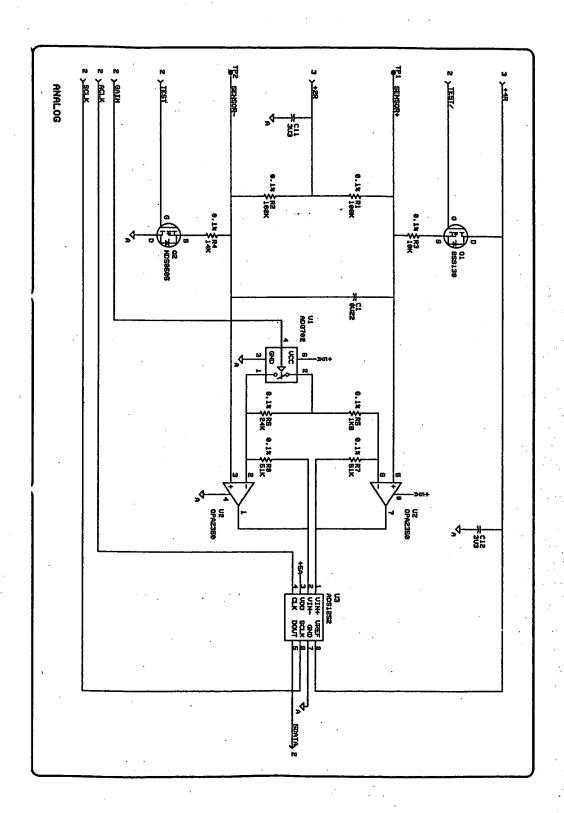
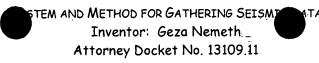


Figure 5



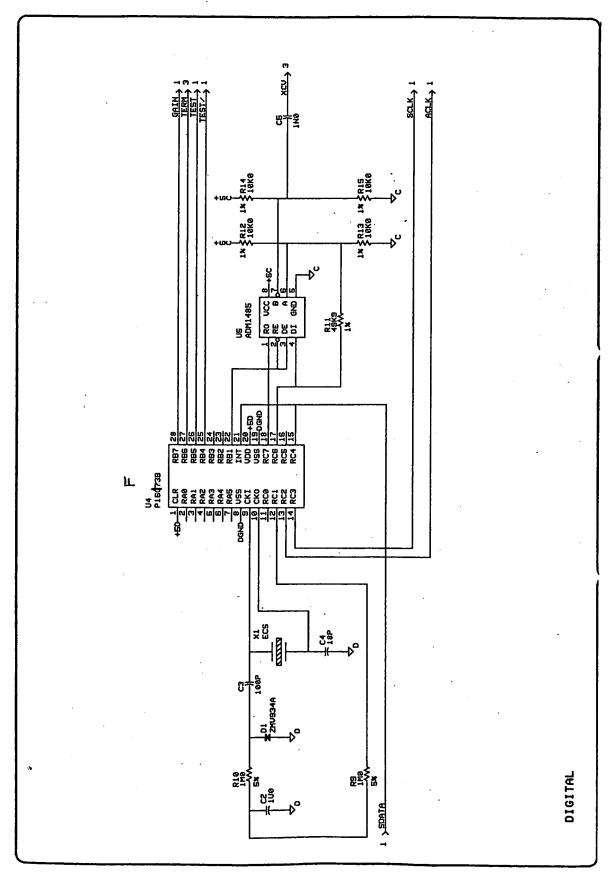


Figure 6

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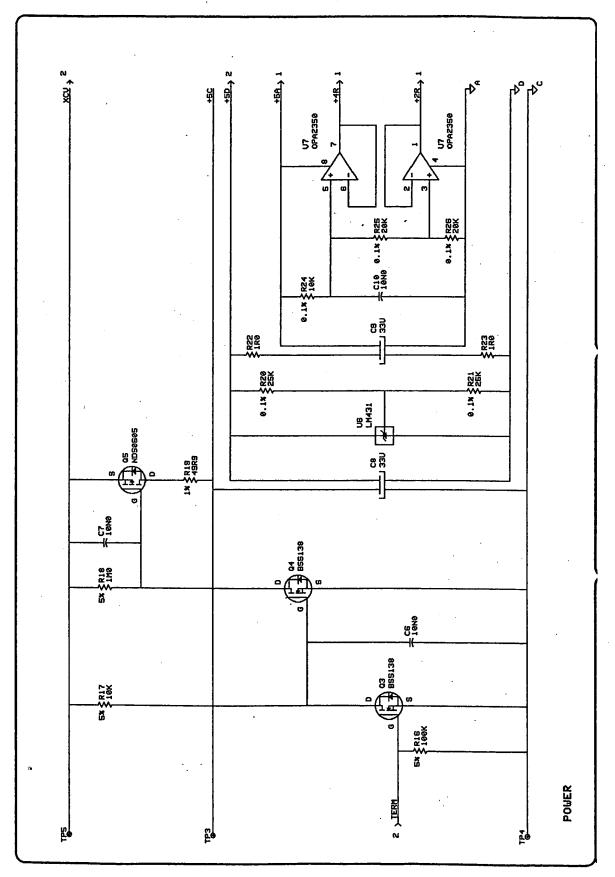
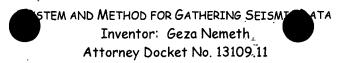


Figure 7



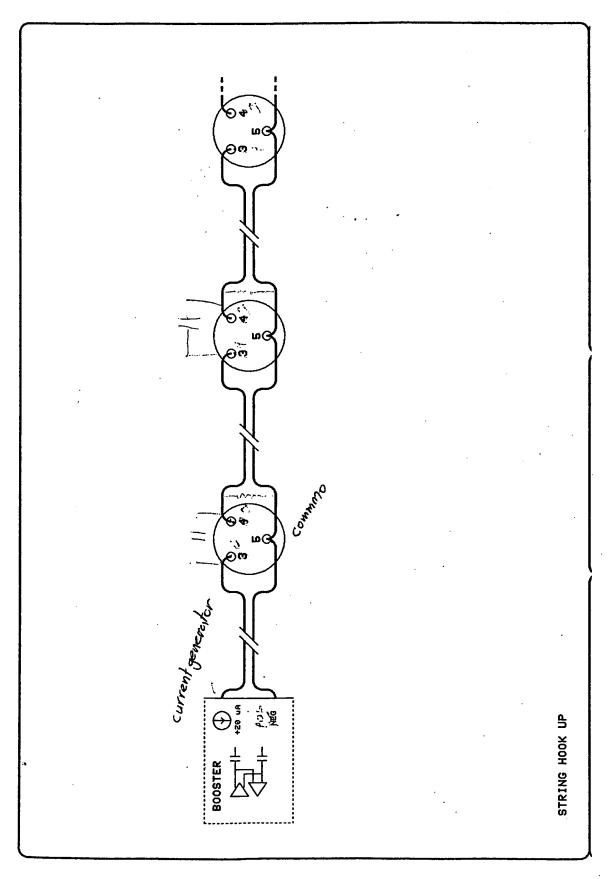


Figure 8

]=1.

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Attorney Docket No. 13109.11

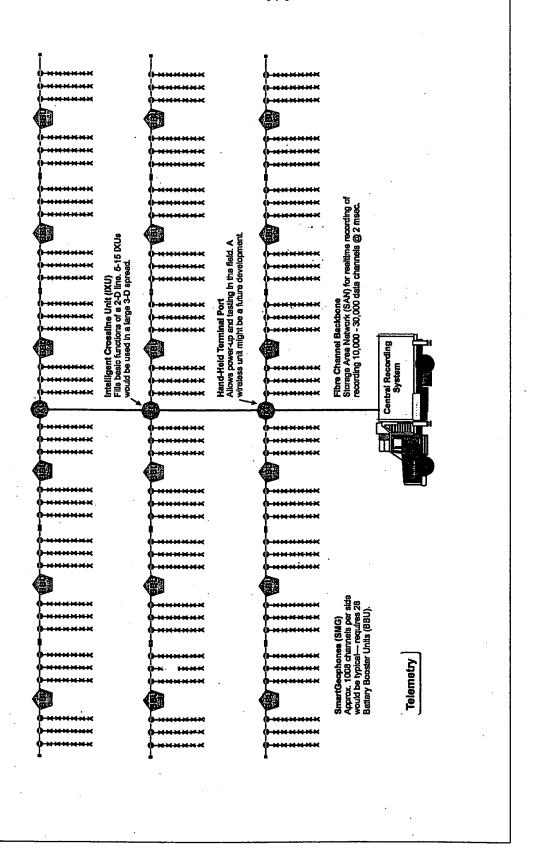


Figure 9